

DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **"METHOD AND APPARATUS FOR CONTROLLING WAFER THICKNESS UNIFORMITY IN A MULTI-ZONE VERTICAL FURNACE"** the Specification of which:

☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent, United States provisional application(s), or inventor's certificate listed below and have also identified below any foreign application for patent, United States provisional application, or inventor's certificate having a filing date before that of the application on which priority is claimed:

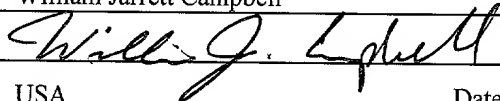
PRIORITY APPLICATION(S)			Priority Claimed
(Number)	(Country)	(Date Filed)	Yes/No
(Number)	(Country)	(Date Filed)	Yes/No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56, which become available between the filing date of the prior application and the national or PCT international filing date of this application:

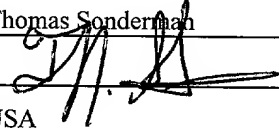
(Application Serial No.)	(Filing Date)	(Status)
(Application Serial No.)	(Filing Date)	(Status)

I hereby direct that all correspondence and telephone calls be addressed to George J. Oehling, Williams, Morgan & Amerson, P.C., 7676 Hillmont, Suite 250, Houston, Texas 77040, (713) 934-4058.

I HEREBY DECLARE THAT ALL STATEMENTS MADE OF MY OWN KNOWLEDGE ARE TRUE AND THAT ALL STATEMENTS MADE ON INFORMATION AND BELIEF ARE BELIEVED TO BE TRUE; AND FURTHER THAT THESE STATEMENTS WERE MADE WITH THE KNOWLEDGE THAT WILLFUL FALSE STATEMENTS AND THE LIKE SO MADE ARE PUNISHABLE BY FINE OR IMPRISONMENT, OR BOTH, UNDER SECTION 1001 OF TITLE 18 OF THE UNITED STATES CODE AND THAT SUCH WILLFUL FALSE STATEMENTS MAY JEOPARDIZE THE VALIDITY OF THE APPLICATION OR ANY PATENT ISSUED THEREON.

Inventor's Full Name: William Jarrett Campbell
 Inventor's Signature: 
 Country of Citizenship: USA Date: 11/7/00
 Residence Address: (street, number, city, state, and/or country) 12407 Beartrap Lane
Austin, TX 78729-7378
 Post Office Address: Same
 (if different from above)

Inventor's Full Name: Scott Bushman
 Inventor's Signature: _____
 Country of Citizenship: USA Date: _____
 Residence Address: (street, number, city, state, and/or country) 6307 Bluff Springs
Round Rock, TX 78744
 Post Office Address: Same
 (if different from above)

Inventor's Full Name: Thomas Sonderman
 Inventor's Signature: 
 Country of Citizenship: USA Date: 11/29/00
 Residence Address: (street, number, city, state, and/or country) 16010 Braesgate Drive
Austin, Texas 78717
 Post Office Address: Same
 (if different from above)

006211 6075460

DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "**METHOD AND APPARATUS FOR CONTROLLING WAFER THICKNESS UNIFORMITY IN A MULTI-ZONE VERTICAL FURNACE**" the Specification of which:

☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent, United States provisional application(s), or inventor's certificate listed below and have also identified below any foreign application for patent, United States provisional application, or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIORITY APPLICATION(S)			Priority Claimed
(Number)	(Country)	(Date Filed)	Yes/No
(Number)	(Country)	(Date Filed)	Yes/No

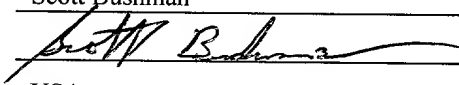
I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in Title 37, Code of Federal Regulations, § 1.56, which become available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status)
(Application Serial No.)	(Filing Date)	(Status)

I hereby direct that all correspondence and telephone calls be addressed to George J. Oehling, Williams, Morgan & Amerson, P.C., 7676 Hillmont, Suite 250, Houston, Texas 77040, (713) 934-4058.

I HEREBY DECLARE THAT ALL STATEMENTS MADE OF MY OWN KNOWLEDGE ARE TRUE AND THAT ALL STATEMENTS MADE ON INFORMATION AND BELIEF ARE BELIEVED TO BE TRUE; AND FURTHER THAT THESE STATEMENTS WERE MADE WITH THE KNOWLEDGE THAT WILLFUL FALSE STATEMENTS AND THE LIKE SO MADE ARE PUNISHABLE BY FINE OR IMPRISONMENT, OR BOTH, UNDER SECTION 1001 OF TITLE 18 OF THE UNITED STATES CODE AND THAT SUCH WILLFUL FALSE STATEMENTS MAY JEOPARDIZE THE VALIDITY OF THE APPLICATION OR ANY PATENT ISSUED THEREON.

Inventor's Full Name: William Jarrett Campbell
 Inventor's Signature: _____
 Country of Citizenship: USA Date: _____
 Residence Address: (street, number, city, state, and/or country) 12407 Beartrap Lane
Austin, TX 78729-7378
 Post Office Address: Same
 (if different from above) _____

Inventor's Full Name: Scott Bushman
 Inventor's Signature: 
 Country of Citizenship: USA Date: 12/13/00
 Residence Address: (street, number, city, state, and/or country) 3904 Clifton Drive
Richardson, Texas 75082
 Post Office Address: Same
 (if different from above) _____

Inventor's Full Name: Thomas Sonderman
 Inventor's Signature: _____
 Country of Citizenship: USA Date: _____
 Residence Address: (street, number, city, state, and/or country) 16010 Braesgate Drive
Austin, Texas 78717
 Post Office Address: Same
 (if different from above) _____

Inventor's Full Name: Elfido Coss, Jr.

Inventor's Signature: _____

Country of Citizenship: USA Date: _____

Residence Address: (street, number, city, state, and/or country) 4318 Clarno Drive
Austin, TX 78749

Post Office Address: Same
(if different from above) _____

005027 607560

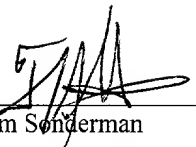
1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Index**
 10. **Table of Contents**
 11. **Abstract**
 12. **Keywords**
 13. **Subject Headings**
 14. **Summary**
 15. **Notes**
 16. **References**
 17. **Appendix**
 18. **Index**
 19. **Table of Contents**
 20. **Abstract**
 21. **Keywords**
 22. **Subject Headings**
 23. **Summary**
 24. **Notes**
 25. **References**
 26. **Appendix**
 27. **Index**
 28. **Table of Contents**
 29. **Abstract**
 30. **Keywords**
 31. **Subject Headings**
 32. **Summary**
 33. **Notes**
 34. **References**
 35. **Appendix**
 36. **Index**
 37. **Table of Contents**
 38. **Abstract**
 39. **Keywords**
 40. **Subject Headings**
 41. **Summary**
 42. **Notes**
 43. **References**
 44. **Appendix**
 45. **Index**
 46. **Table of Contents**
 47. **Abstract**
 48. **Keywords**
 49. **Subject Headings**
 50. **Summary**
 51. **Notes**
 52. **References**
 53. **Appendix**
 54. **Index**
 55. **Table of Contents**
 56. **Abstract**
 57. **Keywords**
 58. **Subject Headings**
 59. **Summary**
 60. **Notes**
 61. **References**
 62. **Appendix**
 63. **Index**
 64. **Table of Contents**
 65. **Abstract**
 66. **Keywords**
 67. **Subject Headings**
 68. **Summary**
 69. **Notes**
 70. **References**
 71. **Appendix**
 72. **Index**
 73. **Table of Contents**
 74. **Abstract**
 75. **Keywords**
 76. **Subject Headings**
 77. **Summary**
 78. **Notes**
 79. **References**
 80. **Appendix**
 81. **Index**
 82. **Table of Contents**
 83. **Abstract**
 84. **Keywords**
 85. **Subject Headings**
 86. **Summary**
 87. **Notes**
 88. **References**
 89. **Appendix**
 90. **Index**
 91. **Table of Contents**
 92. **Abstract**
 93. **Keywords**
 94. **Subject Headings**
 95. **Summary**
 96. **Notes**
 97. **References**
 98. **Appendix**
 99. **Index**
 100. **Table of Contents**
 101. **Abstract**
 102. **Keywords**
 103. **Subject Headings**
 104. **Summary**
 105. **Notes**
 106. **References**
 107. **Appendix**
 108. **Index**
 109. **Table of Contents**
 110. **Abstract**
 111. **Keywords**
 112. **Subject Headings**
 113. **Summary**
 114. **Notes**
 115. **References**
 116. **Appendix**
 117. **Index**
 118. **Table of Contents**
 119. **Abstract**
 120. **Keywords**
 121. **Subject Headings**
 122. **Summary**
 123. **Notes**
 124. **References**
 125. **Appendix**
 126. **Index**
 127. **Table of Contents**
 128. **Abstract**
 129. **Keywords**
 130. **Subject Headings**
 131. **Summary**
 132. **Notes**
 133. **References**
 134. **Appendix**
 135. **Index**
 136. **Table of Contents**
 137. **Abstract**
 138. **Keywords**
 139. **Subject Headings**
 140. **Summary**
 141. **Notes**
 142. **References**
 143. **Appendix**
 144. **Index**
 145. **Table of Contents**
 146. **Abstract**
 147. **Keywords**
 148. **Subject Headings**
 149. **Summary**
 150. **Notes**
 151. **References**
 152. **Appendix**
 153. **Index**
 154. **Table of Contents**
 155. **Abstract**
 156. **Keywords**
 157. **Subject Headings**
 158. **Summary**
 159. **Notes**
 160. **References**
 161. **Appendix**
 162. **Index**
 163. **Table of Contents**
 164. **Abstract**
 165. **Keywords**
 166. **Subject Headings**
 167. **Summary**
 168. **Notes**
 169. **References**
 170. **Appendix**
 171. **Index**
 172. **Table of Contents**
 173. **Abstract**
 174. **Keywords**
 175. **Subject Headings**
 176. **Summary**
 177. **Notes**
 178. **References**
 179. **Appendix**
 180. **Index**
 181. **Table of Contents**
 182. **Abstract**
 183. **Keywords**
 184. **Subject Headings**
 185. **Summary**
 186. **Notes**
 187. **References**
 188. **Appendix**
 189. **Index**
 190. **Table of Contents**
 191. **Abstract**
 192. **Keywords**
 193. **Subject Headings**
 194. **Summary**
 195. **Notes**
 196. **References**
 197. **Appendix**
 198. **Index**
 199. **Table of Contents**
 200. **Abstract**
 201. **Keywords**
 202. **Subject Headings**
 203. **Summary**
 204. **Notes**
 205. **References**
 206. **Appendix**
 207. **Index**
 208. **Table of Contents**
 209. **Abstract**
 210. **Keywords**
 211. **Subject Headings**
 212. **Summary**
 213. **Notes**
 214. **References**
 215. **Appendix**
 216. **Index**
 217. **Table of Contents**
 218. **Abstract**
 219. **Keywords**
 220. **Subject Headings**
 221. **Summary**
 222. **Notes**
 223. **References**
 224. **Appendix**
 225. **Index**
 226. **Table of Contents**
 227. **Abstract**
 228. **Keywords**
 229. **Subject Headings**
 230. **Summary**
 231. **Notes**
 232. **References**
 233. **Appendix**
 234. **Index**
 235. **Table of Contents**
 236. **Abstract**
 237. **Keywords**
 238. **Subject Headings**
 239. **Summary**
 240. **Notes**
 241. **References**
 242. **Appendix**
 243. **Index**
 244. **Table of Contents**
 245. **Abstract**
 246. **Keywords**
 247. **Subject Headings**
 248. **Summary**
 249. **Notes**
 250. **References**
 251. **Appendix**
 252. **Index**
 253. **Table of Contents**
 254. **Abstract**

[illegible]

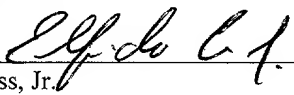
Group Art Unit: Unknown

Att'y Docket: 2000.044400/TT3219

Date:

Signature: 
Tom Sonderman

Date: 11/29/00

Signature: 
Elfido Coss, Jr.

Date: 11/27/00

005227" E30T5250

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: §
William Jarrett Campbell §
Scott Bushman §
Tom Sonderman § Examiner: Unknown
Elfido Coss, Jr. §
§
Serial No.: Unknown § Group Art Unit: Unknown
§
Filed: Concurrently Herewith §
§ Att'y Docket: 2000.044400/TT3219
§
For: METHOD AND APPARATUS FOR §
CONTROLLING WAFER THICKNESS §
UNIFORMITY IN A MULTI-ZONE §
VERTICAL FURNACE §

POWER OF ATTORNEY

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The undersigned, being the inventors named in the above-identified application, hereby revoke any previous Powers of Attorney and appoint:

Elizabeth A. Apperley, Reg. No. 36,428; Paul S. Drake, Reg. No. 33,491; Richard J. Roddy, Reg. No. 27,688; William D. Zahrt II, Reg. No. 26,070; and Harry A. Wolin, Reg. No. 32,638 of Advanced Micro Devices, Inc.; and

Danny L. Williams, Reg. No. 31,892; Terry D. Morgan, Reg. No. 31,181; J. Mike Amerson, Reg. No. 35,426; Kenneth D. Goodman, Reg. No. 30,460; Barbara S. Kitchell, Reg. No. 33,928; Jeffrey A. Pyle, Reg. No. 34,904; Randall C. Furlong, Reg. No. 35,144; Scott F. Diring, Reg. No. 35,119; George J. Oehling, Reg. No. 40,471; Shelley P.M. Fussey, Reg. No. 39,458; Mark D. Moore, Reg. No. 42,903; Carolanne M. King, Reg. No. 44,914; Louis H. Iselin, Reg. No. 42,684; Raymund F. Eich, Reg. No. 42,508; and Thomas H. Belvin, Jr., Reg. No. 43,491 of Williams, Morgan & Amerson, P.C.,

as its attorney or agent so long as they remain with such firms, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Please direct all communications as follows:

George J. Oehling, Patent Agent
WILLIAMS, MORGAN & AMERSON, P.C.
7676 Hillmont, Suite 250
Houston, Texas 77040
(713) 934-7000

Signature: _____
William Jarrett Campbell

Date: _____

Signature: Scott Bushman
Scott Bushman

Date: 12/13/00

006627 63075460

Signature: _____
Tom Sonderman

Date: _____

Signature: _____
Elfido Coss, Jr.

Date: _____

0062221" E30T5/60